

Colbert
COLSF F.2-VI

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JUN 22 1989
SUPERFUND BRANCH

ABC LABORATORIES, INC.
EAST 4922 UNION AVENUE
SPOKANE, WA 99219
509-534-0161

REPORT TO: Spokane County Dept. of Utilities
N. 811 Jefferson
Spokane, WA 99210

LAB NO: 32553-89
DATE: 6-16-89
SAMPLE DATE: May

ATTN: Bruce Austin

P.O.#:

DESCRIPTION: Perform Volatile Organic Scan on submitted samples from the wells in the Colbert Landfill area. Analyses performed by methods outlined in proposal of December 8th, 1988.

DETECTION LIMITS: 1 part per billion

ND: Not Detected

USEPA SF



1414325

Respectfully submitted,
ABC LABORATORIES, INC.

A handwritten signature in black ink, appearing to read 'W. E. Burkhardt'.

W. E. Burkhardt
Manager

ABC LABORATORIES, INC.

Spokane County Dept. of Utilities
Lab NO. 32553-89

NAME	(b) (6)	(b) (6)	(b) (6)	(b) (6)	(b) (6)	(b) (6)
WELL NO.	1173L-1	1573R-1	Springs 1073C-1	1573C-10	1073G-1	1073P-1
Chloroform	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	ND	ND	<1	ND	ND	ND
Trichloroethylene	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	9	ND	30	ND	ND	ND
Tetrachloroethylene	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND
1-Pentene	ND	ND	ND	ND	ND	ND
Cyclopentane	ND	ND	ND	ND	ND	ND
Trans 2-Hexene	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND
Ethylene DiBromide	ND	ND	ND	ND	ND	ND
Ethyl Benzene	ND	ND	ND	ND	ND	ND
M-xylene	ND	ND	ND	ND	ND	ND
O-xylene	ND	ND	ND	ND	ND	ND
P-xylene	ND	ND	ND	ND	ND	ND
Cumene	ND	ND	ND	ND	ND	ND
1,2,4-Trimethyl Benzene	ND	ND	ND	ND	ND	ND
P-cymene	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND
M-dichlorobenzene	ND	ND	ND	ND	ND	ND
O-dichlorobenzene	ND	ND	ND	ND	ND	ND
P-dichlorobenzene	ND	ND	ND	ND	ND	ND
Methyl Ethyl Ketone	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
Trans 1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
Trans 1,2-Dichloroethylene	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND
Cis 1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND
Trans 1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	ND	ND	ND	ND	ND	ND

ABC LABORATORIES, INC.

Spokane County Dept. of Utilities
Lab NO. 32553-89

NAME	(b) (6)					
WELL NO.	0273D-1	1173B-1	1573K-2	1073L-1	1573C-6	1573B-5
Chloroform	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	ND	ND	ND	ND	ND	ND
Trichloroethylene	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND
1-Pentene	ND	ND	ND	ND	ND	ND
Cyclopentane	ND	ND	ND	ND	ND	ND
Trans 2-Hexene	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND
Ethylene Dibromide	ND	ND	ND	ND	ND	ND
Ethyl Benzene	ND	ND	ND	ND	ND	ND
M-xylene	ND	ND	ND	ND	ND	ND
O-xylene	ND	ND	ND	ND	ND	ND
P-xylene	ND	ND	ND	ND	ND	ND
Cumene	ND	ND	ND	ND	ND	ND
1,2,4-Trimethyl Benzene	ND	ND	ND	ND	ND	ND
P-cymene	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND
M-dichlorobenzene	ND	ND	ND	ND	ND	ND
O-dichlorobenzene	ND	ND	ND	ND	ND	ND
P-dichlorobenzene	ND	ND	ND	ND	ND	ND
Methyl Ethyl Ketone	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
Trans 1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
Trans 1,2-Dichloroethylene	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND
Cis 1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND
Trans 1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND
1,1,2,-richloroethane	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	ND	ND	ND	ND	ND	ND

ABC LABORATORIES, INC.

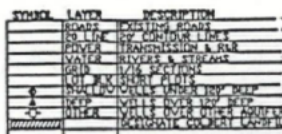
Spokane County Dept. of Utilities
Lab NO. 32553-89

NAME	(b) (6) Springs	(b) (6)				
WELL NO.	0373P-1	1473N-1	1073M-2	0273E-2	1073E-2	0273C-2
Chloroform	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	<1	ND	ND	ND	ND	ND
Trichloroethylene	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	53	ND	ND	18	13	ND
Tetrachloroethylene	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND
1-Pentene	ND	ND	ND	ND	ND	ND
Cyclopentane	ND	ND	ND	ND	ND	ND
Trans 2-Hexene	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND
Ethylene DiBromide	ND	ND	ND	ND	ND	ND
Ethyl Benzene	ND	ND	ND	ND	ND	ND
M-xylene	ND	ND	ND	ND	ND	ND
O-xylene	ND	ND	ND	ND	ND	ND
P-xylene	ND	ND	ND	ND	ND	ND
Cumene	ND	ND	ND	ND	ND	ND
1,2,4-Trimethyl Benzene	ND	ND	ND	ND	ND	ND
P-cymene	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND
M-dichlorobenzene	ND	ND	ND	ND	ND	ND
O-dichlorobenzene	ND	ND	ND	ND	ND	ND
P-dichlorobenzene	ND	ND	ND	ND	ND	ND
Methyl Ethyl Ketone	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
Trans 1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
Trans 1,2-Dichloroethylene	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND
Cis 1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND
Trans 1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND
1,1,2,2-Trichloroethane	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	ND	ND	ND	ND	ND	ND

ABC LABORATORIES, INC.

Spokane County Dept. of Utilities
Lab NO. 32553-89

NAME	(b) (6)				
WELL NO.	1073L-2	1073L-4	2273A-1	1073K-1	1573C-14
Chloroform	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	8	ND
1,1-Dichloroethylene	ND	ND	ND	5	ND
Trichloroethylene	ND	ND	ND	1	ND
1,1,1-Trichloroethane	ND	ND	ND	139	ND
Tetrachloroethylene	ND	ND	ND	2	ND
Methylene Chloride	ND	ND	ND	ND	ND
1-Pentene	ND	ND	ND	ND	ND
Cyclopentane	ND	ND	ND	ND	ND
Trans 2-Hexene	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND
Ethylene DiBromide	ND	ND	ND	ND	ND
Ethyl Benzene	ND	ND	ND	ND	ND
M-xylene	ND	ND	ND	ND	ND
O-xylene	ND	ND	ND	ND	ND
P-xylene	ND	ND	ND	ND	ND
Cumene	ND	ND	ND	ND	ND
1,2,4-Trimethyl Benzene	ND	ND	ND	ND	ND
P-cymene	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND
M-dichlorobenzene	ND	ND	ND	ND	ND
O-dichlorobenzene	ND	ND	ND	ND	ND
P-dichlorobenzene	ND	ND	ND	ND	ND
Methyl Ethyl Ketone	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND
Trans 1,2-Dichloroethane	ND	ND	ND	ND	ND
Trans 1,2-Dichloroethylene	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND
Cis 1,3-Dichloropropylene	ND	ND	ND	ND	ND
Trans 1,3-Dichloropropylene	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND
1,1,2-trichloroethane	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	ND	ND	ND	ND	ND



NOTE:

FOR IDENTIFICATION OF WELLS
SEE WELL OWNER/MURDER LEGEND

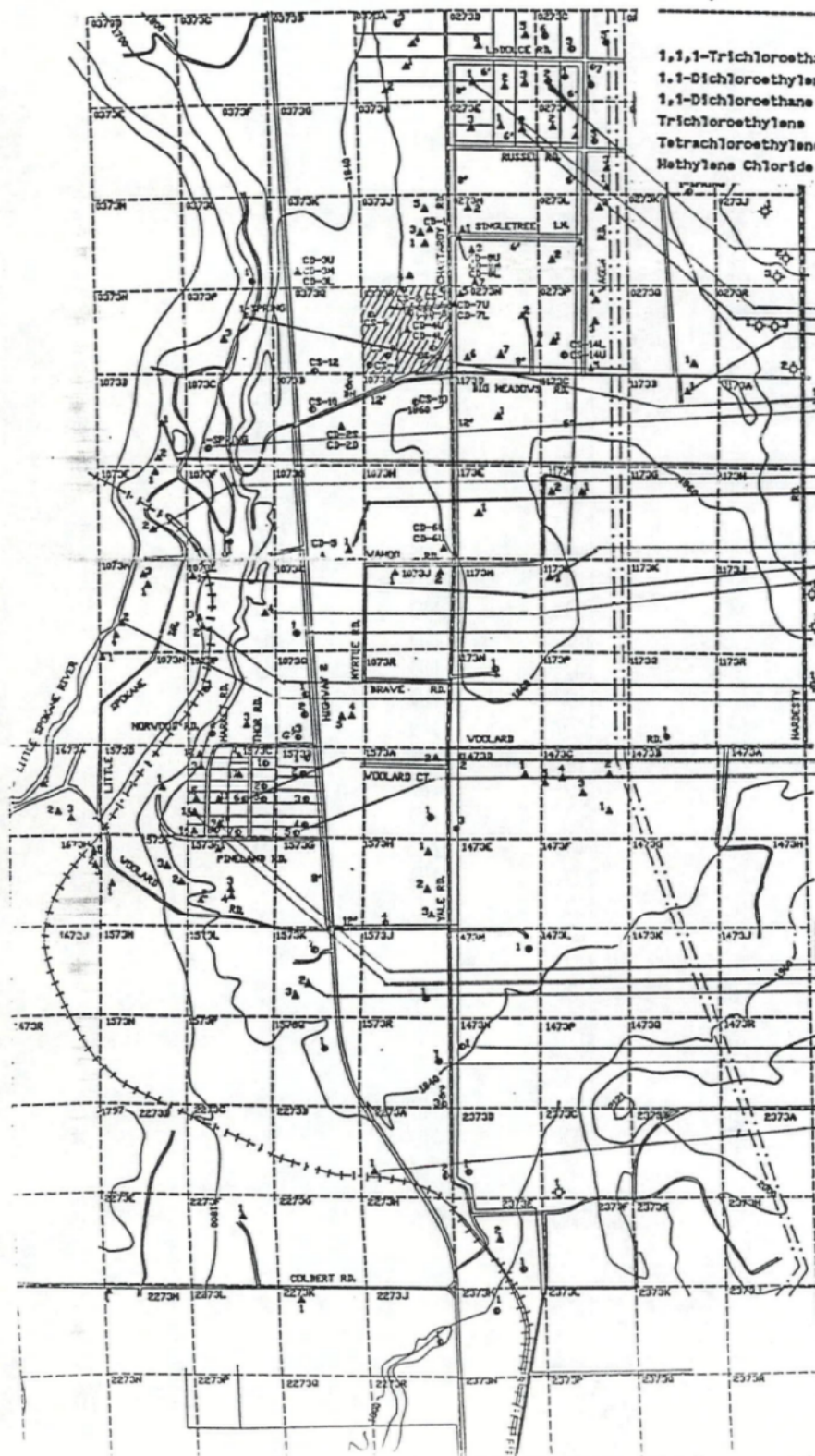
Health Protection Levels®

* Health Protection Levels are not to be exceeded, during operational life of remedial action in effluents from groundwater treatment systems. Permanent reduction of contaminant concentrations below these levels throughout the site will indicate completion of the remedial action.

Contaminant

Maximum Concentration
parts per billion (ug/l)

Basin



1,1,1-Trichloroethane (TCA)	200.0	HCL
1,1-Dichloroethylene (DCE)	7.0	HCL
1,1-Dichloroethane (DCA)	4050.0	HAC
Trichloroethylene (TCE)	5.0	HCL
Tetrachloroethylene (PCE or TETRA CL)	0.7	10 - 5 cancer risk
Methylene Chloride (MC)	2.5	10 - 5 cancer risk

SHALLOW						
JUNE 16, 1989 #32552-8 WELL # 111-TCA	11-DCE	11-DCA	TCE	TETRACL	CHLOROFORM	
(b) 02/30-2	NO	NO	NO	NO	NO	NO

DEEP							
JUNE 16, 1989 #32553-B WELL # 111-TCA 11-DCE 11-DCA TCE TETRACL CHLOROFORM							
(b) (6)	02730-1	ND	ND	ND	ND	ND	ND
	02735-2	18	ND	ND	ND	ND	ND
	11738-1	ND	ND	ND	ND	ND	ND

SHALLOW									
JUNE 16, 1989 #32553-B WELL # 111-TCA 11-DCE 11-DCA TCE TETRACL CHLOROFORM									
(b)	SPRINGS	9373P-1S	52	<1	ND	ND	ND	ND	ND
	SPRINGS	19730-1	30	<1	ND	ND	ND	ND	ND

DEEP							
JUNE 16, 1994 #3225 & WELL # 111-TCA 11-DCE 11-DCA TCE TETRACL CHLOROFORM							
(b) (6)	10730-1	NO	NO	NO	NO	NO	NO
	1073E-2	13	NO	NO	NO	NO	NO
	10730-1	NO	NO	NO	NO	NO	NO

DEEP		JUNE 16, 1989 #32553-B WELL # 111-TCA 11-DCE 11-DCA TCE TETRACL CHLOROFORM					
(b) (6)	1173L-1	9	ND	ND	ND	ND	ND
	1173L-1	ND	ND	ND	ND	ND	ND

SHALLOW								
JUNE 16, 1989	#32553-8	Well # 111-TCA	11-DCE	11-DCA	TCE	TETRACL	CHLOROFORM	
(b)		1973K-1	139	5	8	1	2	ND

JUNE 16, 1989 #32552-B WELL # 111-TCA 11-DCE 11-DCA TCE TETRACL CHLOROFORM	
(b)	1073M-2 NO NO NO NO NO NO
	1073M-2 NO NO NO NO NO NO

SURE TO	1989 #22533-6 WELLS #	11-TCA	11-DCE	11-PCLA	PCE	TETRACE	CHLOROPYCL
(b)	15730-6	NO	NO	NO	NO	NO	NO
	15730-5	NO	NO	NO	NO	NO	NO

JUNE 18, 1989 #32553-8 WELL # 111-TCA 11-DCE 11-DCA TCE TETRACHLORIDE-65M

61	1573K-2	ND	ND	ND	ND	ND	ND
SHALLOW							
LINE 16	1989	632553-B WELL #	111-TCA	11-DCE	11-DCA	TCE	TETRACL CHLOROFORM

	1-17-81	1-18-81	1-19-81	1-20-81	1-21-81	1-22-81
DEEP						
JUNE 16, 1989 #22553-8 WELL # 111-TCA 11-DCE 11-PCA TCE TETRACL CHLOROFORM						